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DIALOG(R) File 347:JAPIO
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MONOCLONAL ANTIBODY AGAINST SODIUM HYALURONATE ITS PRODUCTION

PUB. NO.: 09-012600 [JP 9012600 A]
PUBLISHED: January 14, 1997 (19970114)
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APPL. NO.: 07-180698 [JP 95180698]
FILED: June 22, 1995 (19950622)
INTL CLASS: [6] C07K-016/18; C12P-021/08; G01N-033/577; C12N-005/10;
C12N-015/02; C12P-021/08; C12R-001/91; C12N-005/10;
C12R-001/91
JAPIO CLASS: 14.1 (ORGANIC CHEMISTRY -- Organic Compounds); 14.5 (ORGANIC
CHEMISTRY -- Microorganism Industry); 28.2 (SANITATION --
Medical); 46.2 (INSTRUMENTATION -- Testing)
JAPIO KEYWORD: R007 (ULTRASONIC WAVES)

ABSTRACT

PURPOSE: To produce the subject new antibody, produced by a fused cent or a cell, capable of producing an antibody, prepared by bonding a protein, etc., to sodium hyaluronate reduced in molecular weight and immunizing a mouse with the resultant substance to a cell of a myeloma and capable of specifically recognizing the sodium hyaluronate.

CONSTITUTION: A protein (e.g. hemocyanin) or a phospholipid (e.g. phosphatidylethanolamine) is introduced into sodium hyaluronate reduced in molecular weight to form a covalent combination, which is then used as an antigen and administered to immunize a BALB/C mouse therewith. Additional immunization is carried out to collect a cell of the spleen after the final immunization. The collected cell is fused to a cell of a murine myeloma in the presence of polyethylene glycol and then selectively cultured in an HAT culture medium to provide a hybridoma, which is further screened according to the enzyme-linked immunosorbent assay (ELISA), etc., to select a strain capable of producing an antibody having reactivity with sodium hyaluronate. The selected strain is cloned by a limiting dilution method and then cultured in a culture medium, etc., to afford the new monoclonal antibody against the sodium hyaluronate.